

ABSTRACT OF THE DISCLOSURE

A control circuit for an amusement device includes a sound detector, a band-pass filter, a peak integrator and a controller. The sound detector is configured to detect audible sound signals. The band-pass filter is electrically coupled to the sound detector. The band-pass filter is configured to extract sound signals in a predetermined audible frequency range and to output a corresponding filtered signal. The peak integrator is electrically coupled to the band-pass filter. The peak integrator is configured to receive the filtered signal, to average peaks of the filtered signal and to output a trigger signal based on a predetermined range of the averaged filter signal. The controller is electrically coupled to the peak integrator. The controller is configured to receive the trigger signal and to provide a control output in response to the trigger signal.